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## **Claims**

- A method for improving printability of uncoated mechanical pulp paper which
  method comprises
  - applying a combination of alkyl ketene dimer and styrene maleic acid anhydride copolymer onto at least one side of the paper web, and
  - calendering the paper web.
- 2. The method according to claim 1 wherein the combination of alkyl ketene dimer and styrene maleic acid anhydride copolymer is applied before (super)calendering.
  - 3. The method according to claim 1 or 2 wherein the combination of alkyl ketene dimer (AKD) and styrene maleic acid anhydride copolymer (SMA) is a mixture of AKD and SMA.
  - 4. The method according to claim 3 wherein the mixture of alkyl ketene dimer and styrene maleic acid anhydride copolymer is applied together with moistening water.
- 5. The method according to any one of claims 1 to 4 wherein the paper to be treated is uncalendered paper.
- 6. The method according to any one of claims 1 to 5 wherein the weight ratio of alkyl ketene dimer to styrene maleic acid anhydride copolymer is 1:5 2:1, preferably 1:1...2.
  - 7. The method according to any one of claims 1 to 6 wherein the combination of alkyl ketene dimer and styrene maleic acid anhydride copolymer is applied onto the paper web in an amount of  $0.05 0.8 \text{ g/m}^2$ .

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- 8. The method according to any one of claims 1 to 7 wherein the combination of alkyl ketene dimer and styrene maleic acid anhydride copolymer is applied onto the paper web
  - at a separate (super)calender before or during calendering, or
  - at the paper machine before or during on-line (super)calendering, or
  - at the paper machine before the paper web is passed to a separate (super)calender.
- 9. The method according to any one of claims 1 to 8 wherein before applying the combination of AKD and SMA the paper web is dried to a suitable moisture content, preferably to a moisture content <15%.

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- 10. Use of a combination of alkyl ketene dimer and styrene maleic anhydride copolymer on paper surface for improving the printability of uncoated mechanical pulp papers.
- 11. The use according to claim 10 wherein the paper is SC paper or newsprint paper.
- 20 12. Paper prepared according to the method of any one of claims 1 to 9.
  - 13. Use of the paper according to claim 12 in a rotogravure printing process.